

ART. I.—*Note on the Pollen of Nothofagus Gunnii (Hook.) Oerst.*

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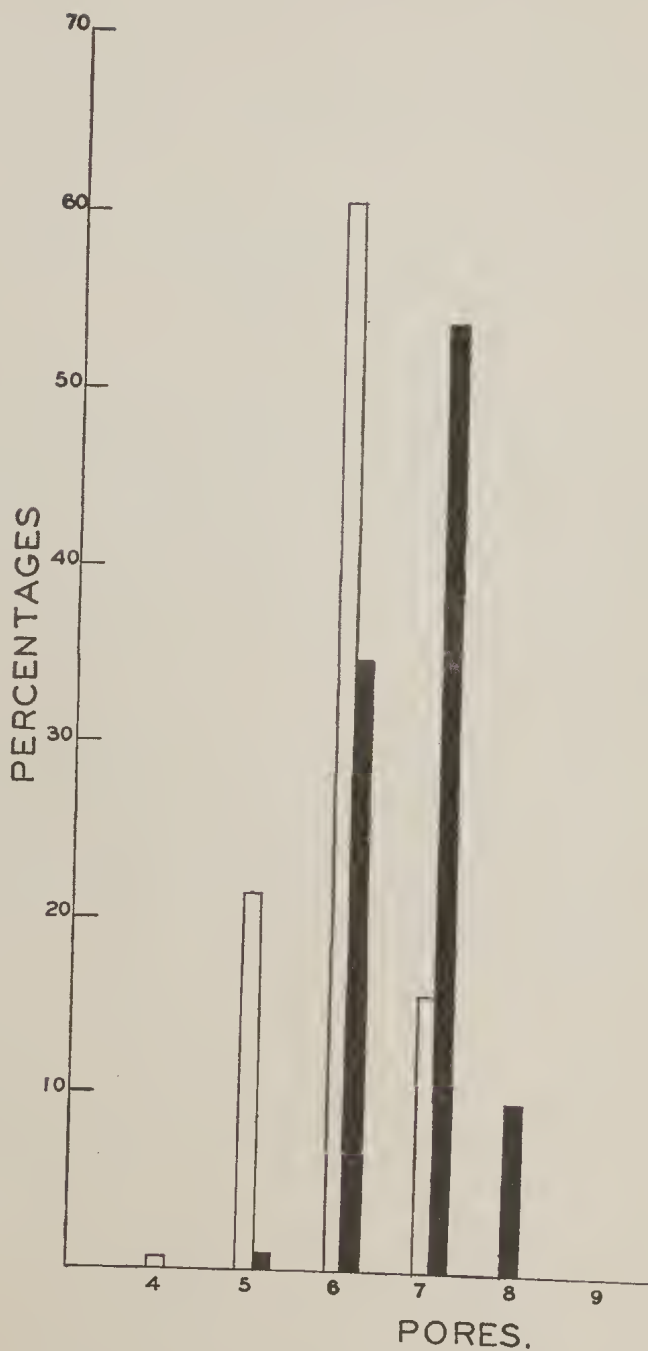
Nothofagus is represented in the flora of eastern Australia and Tasmania by three species. Of these *N. Moorei* (F. Muell.) Maiden, is restricted to New South Wales and southern Queensland, *N. Cunninghamsii* (Hook.) Oerst. to Victoria and Tasmania, whilst *N. Gunnii* (Hook.) Oerst. occurs in Tasmania only. The pollens of *N. Cunninghamsii* and *N. Moorei* were described by Miss L. M. Cranwell in 1939 (Rec. Auck. Inst. Mus. Vol. 2, No. 4, pp. 184, 185). In this article the pollen of *N. Gunnii* is discussed.

Unlike the pollens of *N. Cunninghamsii* and *N. Moorei*, which are of Cranwell's *N. Menziesii* type, the pollen of *N. Gunnii* is of the *N. fusca* type (Cranwell, *loc. cit.* p. 185).

Description of Grain.—Almost circular in polar view; size-range 25.5–39 μ , the average being about 31 μ . Pores 3–8, exceptionally 3, mainly 5–7, the majority 6; from one locality (3, table 1) 7-pored grains predominated. Pores shallower than in grains of *N. fusca*, 2.6 μ deep, 1.3–2 μ wide, and 8–9 μ long. Exine approximately 1.3–1.75 μ , not so strongly thickened around the pores as in *N. fusca*; sculpture clearly defined, papillae less closely set than in *N. fusca*; and rather more strongly developed. Cell contents dense, numerous starch grains present.

Locality	Collector	Date	Collection
1. Cradle Mountain, Tasmania ..	P. R. H. St. John and O. Romeke	—	National Herbarium University Herbarium University Herbarium
2. Head Mersey River, Tasmania	Mrs. C. E. Perrin ..	January, 1922	
3. Track to Lake Fenton, Tasmania	A. J. Ewart ..	January, 1927	

Locality	Grains Counted	Pore Number					
		3	4	5	6	7	8
		%	%	%	%	%	%
1	748	0.1	1.5	31.8	52.0	14.1	0.53
2	248	..	0.8	21.8	60.7	15.7	..
3	460	0.65	34.7	54.0	9.78



Pore-frequencies in pollens of *N. Gunnii*. □ Loc. 2. ■ Loc. 3.

Habit.—*N. Gunnii* is a deciduous, much-branched shrub, 5–8 feet in height.

Distribution.—Restricted to high altitudes towards the western region of Tasmania.

Flowering Period.—December.